'	••	Under the Pa	aperwork Reduction Act of 1995, no persons are required	d to respor	nd to a	collection of in	nformation unless it displays	a valid OMB con	trol number
	_				Attorney Docket No.		22459/04826		
		PATENT APPLICATION TRANSMITTAL		First In	First Inventor		Symonds		РТ 37
	16569			Title	Title HEAT EXCHA		NGER O		
	છ			Expres	Express Mail Label No.		EL085078290US	. //	76
	U.S. PT	(Only for new nonprovision	onal applications under 37 CFR 1.53(b))	Deposi	ited by	y 	Robert Watts	Vallo	22390 10/
	-		CATION ELEMENTS concerning utility patent application contents	Al	DDF	RESS TC	Mail Stop PATENT Commissioner for P.O. Box 1450 Alexandria, VA 22	r Patents	ON
1.	X	Fee Transmittal Form (7.			r CD-R in duplicate, large Program <i>(Appendix)</i>	e table or	
2.		(Submit an original and a dupli Applicant claims small See 37 CFR 1.27.		8.			or Amino Acid Sequence	Submission	
3.	X	Specification	[Total Pages3		a.	Comp	puter Readable Form (Cl	RF)	
		,,	Descriptive title of the invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & D		b. Specification Sequence Listing on:				
		- Cross Reference to				=	D-ROM or CD-R (2 copie	s); or	
		- Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention			C.	_	iper ements verifying identity o	of above conie	s
					ACCOMPANYING APPLICATION PARTS				
		Brief Summary of the Invention Brief Description of the Drawings (if filed)	9.			t Papers (cover sheet &		<u> </u>	
		- Detailed Description	- · · · · · · · · · · · · · · · · · · ·	10.		•	73(b) Statement	Power o	f
		 Claim(s) Abstract of the Disclete 	osure	11.	П	•	e <i>is an assignee)</i> anslation Document <i>(if ap</i>	Attorney	•
4.	X	Drawing(s) (35 U.S.C.	0	12.	=	Information	n Disclosure (IDS)/PTO-1449	Copies of Citations	
5.	Oatl	h or Declaration	[Total Sheets 3]	13.	=		Amendment		
	å.	Newly executed (or	riginal or copy)	14.	X		ceipt Postcard (MPEP 50 specifically itemized)	3)	
	b.		application (37 CFR 1.63(d))	15.		Certified Co	opy of Priority Document	(s)	
		(for continuation/divisional with Box 18 completed) i. DELETION OF INVENTOR(S)		16.		Nonpublica	oriority is claimed) ation Request under 35 U		
		Signed s	tatement attached deleting inventor(s) named in t	the 17		Applicant m Other:	nust attach form PTO/SB	/35 or its equiv	alent
6.	×	prior app Application Data Sheet	lication, see 37 CFR 1.63(d)(2) and 1.33(b) . See 37 CFR 1.76	''	· —	Julet	•••••		· · · · · · · · · · · · · · · · · · ·
18	3. If a	a CONTINUING APPLIC	ATION, check appropriate box, and supply the	requisite	e info	rmation belo	ow and in the first sente	ence of the sp	pecification
^{fo}	llowin	g the title, or in an Applica **Example Continuation** **Example Con	ation Data Sheet under 37 CFR 1.76:	(CIP)		of prior application	on No.: 09/937, 666		
Pri	or appli		Examiner Leonard Leo S only; The entire disclosure of the prior application, from which is the prior application of the		Δrt	Unit: 3743		ared a part of the	disclosure o
the	accon	FINUATION OF DIVISIONAL APP opanying continuation or division of application parts.	'S only; The entire disclosure of the prior application, from to onal application and is hereby incorporated by reference. The	e incorpora	tion <u>ca</u>	n only be relied	upon when a portion has been	i Inadvertently omi	itted from the
			19. CORRESPONDE	NCE AD	DRES	ss			-
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This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-s1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

City

Country

Name (Print/Type)

James A. Balazs

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State

Registration No. (Attorney/Agent)

Telephone

Zip Code

Date

47,401

1/26/04

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UTILITY PATENT APPLICATION TRANSMITTAL

Attomey Docket No. First Inventor Title HEAT EXC		22459/04826			
		Symonds			

(Only for new nonprovisional applications under 37 CFR 1.53(b))

CERTIFICATE OF EXPRESS MAILING						
Date of Deposit: January 26, 2004						
I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop _Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.						
Robert Watts						
Name of Person Signing (Type or Print)						
Signed: Robert World						

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	CRAITTAI	Complete if Known				
FEE TRANS	DIVITIAL	Application Number				
for FY	2004	Filing Date				
Effective 10/01/2003. Patent fees are		First Named Inventor	Symonds			
		Examiner Name				
Applicant claims small entity status	. See 37 CFR 1.27	Art Unit		 -		
TOTAL AMOUNT OF PAYMENT	(\$) 856	Attornov Docket No.	22459/04826			

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
X Check Credit card Money Other None	3. ADDITIONAL FEES					
	Large Entity Small Entity					
Deposit Account:	Fee Fee Fee Fee Description Code (\$) Code (\$)	e Paid				
Deposit Account 03-0172	1051 130 2051 65 Surcharge - late filing fee or oath	e Faigi				
Number Deposit	1052 50 2052 25 Surcharge - late provisional filing fee or					
Account Name	cover sheet					
The Director is authorized to: (check all that apply)	1053 130 1053 130 Non-English specification					
Charge fee(s) indicated below						
Charge any additional fee(s) or any underpayment of fee(s)	1804 920* 1804 920* Requesting publication of SIR prior to Examiner action					
Charge fee(s) indicated below, except for the filing fee	1805 1,840* 1805 1,840* Requesting publication of SIR after					
to the above-identified deposit account.	Examiner action					
FEE CALCULATION	1251 110 2251 55 Extension for reply within first month 1252 420 2252 210 Extension for reply within second month					
1. BASIC FILING FEE	1202 120 200					
Large Entity Small Entity Fee Fee Fee Fee Fee Description Fee Paid	1253 950 2253 475 Extension for reply within third month	$\neg \neg$				
Fee Fee Fee Fee Fee Description Fee Paid Code (\$) Code (\$)	1204 1,400 2204 140 Extension for reply within fourth month					
1001 770 2001 385 Utility filing fee 770	1255 2,010 2255 1,005 Extension for reply within fifth month					
1002 340 2002 170 Design filing fee	1401 330 2401 165 Notice of Appeal					
1003 530 2003 265 Plant filing fee	1402 330 2402 165 Filing a brief in support of an appeal					
1004 770 2004 385 Reissue filing fee	1403 290 2403 145 Request for oral hearing	 				
1005 160 2005 80 Provisional filing fee	1451 1,510 1451 1,510 Petition to institute a public use proceeding					
SUBTOTAL (1) (\$) 770	1452 110 2452 55 Petition to revive - unavoidable					
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1453 1,330 2453 665 Petition to revive - unintentional					
Fee from	1301 1,330 2301 003 Clinty Issue lee (01 1013300)					
Extra Claims below Fee Paid Total Claims 18 -20** = 0 X = 0	<u> </u>					
Independent 4 - 3** = 1 X 86 = 86	1503 640 2503 320 Plant Issue lee	——				
Claims -3 - 1	1400 130 1400 130 Felilions to the Commissioner					
	1807 50 1807 50 Processing fee under 37 CFR 1.17(q)					
Large Entity Small Entity Fee Fee Fee Fee Fee Fee Fee Description	1806 180 1806 180 Submission of Information Disclosure Stmt					
Code (\$)	8021 40 8021 40 Recording each patent assignment per property (times number of properties)					
1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3	1809 770 2809 385 Filing a submission after final rejection (37 CFR 1.129(a))					
1203 290 2203 145 Multiple dependent claim, if not paid	d 1810 770 2810 385 For each additional invention to be examined (37 CFR 1.129(b))					
1204 86 2204 43 ** Reissue independent claims over original patent	1801 770 2801 385 Request for Continued Examination (RCE)					
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 900 1802 900 Request for expedited examination of a design application					
· · · · · · · · · · · · · · · · · · ·	Other fee (specify)					
SUBTOTAL (2) (\$) 86	*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$)	0				

SUBMITTED BY (Complete (if applicable))					
Name (Print/Type)	James A. Balazs	Registration No. (Attorney/Agent)	47,401	Telephone	(216) 622-8200
Signature	and Mill			Date	1/20/04

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